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SEQUENCE LISTING

<110> Zuker, Charles Vinos, Javier

The Regents of the University of California

- <120> Method for Modulating G-Protein Coupled Receptors
- <130> 02307E-085110US
- <140> US 09/463,733
- <141> 2000-06-12
- <150> US 60/054,165
- <151> 1997-07-30
- <150> US 60/054,492
- <151> 1997-08-01
- <150> WO PCT/US98/15717
- <151> 1998-07-29
- <160> 1
- <170> PatentIn Ver. 2.1
- <210> 1
- <211> 661
- <212> PRT
- <213> Drosophila melanogaster
- <220>
- <223> retinal degeneration C (RDGC) protein
- <400> 1
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- Arg Arg His Gln Ala Arg Arg Glu Met Gln Arg Arg Cys Asn Trp Gln
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- Ile Phe Gln Asn Leu Glu Tyr Ala Ser Glu Gln Asp Gln Ala Glu Leu 35 40 45
- Tyr Lys Phe Phe Asn Asp Leu Ile Lys His Met Pro Gln Ala Ala Gly 50 55 60
- Arg Lys Asn Gln Tyr Gln Gly Ser Ala His Val Ser Val Leu Asp Asp 65 70 75 80
- Lys Asp Asp Leu Val Glu Glu Phe Gly Asp Ile Val Asn Ala Lys Ile 85 90 95
- Glu Leu Pro Ile Arg Lys Asn His Ile Asp Leu Leu Ile Asp Val Phe
 100 105 110
- Arg Lys Lys Arg Gly Asn Arg Leu His Pro Lys Tyr Val Ala Leu Ile 115 120 125
- Leu Arg Glu Ala Ala Lys Ser Leu Lys Gln Leu Pro Asn Ile Ser Pro 130 135 140

Val Ser Thr Ala Val Ser Gln Gln Val Thr Val Cys Gly Asp Leu His 150 155 Gly Lys Leu Asp Asp Leu Leu Val Val Leu His Lys Asn Gly Leu Pro 170 Ser Ser Ser Asn Pro Tyr Val Phe Asn Gly Asp Phe Val Asp Arg Gly Lys Arg Gly Leu Glu Val Leu Leu Leu Leu Ser Leu Tyr Leu Ala 200 Phe Pro Asn Ala Val Phe Leu Asn Arg Gly Asn His Glu Asp Ser Val Met Asn Ala Arg Tyr Gly Phe Ile Arg Glu Val Glu Ser Lys Tyr Pro 230 235 Arg Asn His Lys Arg Ile Leu Ala Phe Ile Asp Glu Val Tyr Arg Trp Leu Pro Leu Gly Ser Val Leu Asn Ser Arg Val Leu Ile Val His Gly Gly Phe Ser Asp Ser Thr Ser Leu Asp Leu Ile Lys Ser Ile Asp Arg Gly Lys Tyr Val Ser Ile Leu Arg Pro Pro Leu Thr Asp Gly Glu Pro Leu Asp Lys Thr Glu Trp Gln Gln Ile Phe Asp Ile Met Trp Ser Asp 310 315 Pro Gln Ala Thr Met Gly Cys Val Pro Asn Thr Leu Arg Gly Ala Gly 330 Val Trp Phe Gly Pro Asp Val Thr Asp Asn Phe Leu Gln Arg His Arg 345 340 Leu Ser Tyr Val Ile Arg Ser His Glu Cys Lys Pro Asn Gly His Glu 360 Phe Met His Asp Asn Lys Ile Ile Thr Ile Phe Ser Ala Ser Asn Tyr 375 380 Tyr Ala Ile Gly Ser Asn Lys Gly Ala Tyr Ile Arg Leu Asn Asn Gln Leu Met Pro His Phe Val Gln Tyr Ile Ser Ala Ala Ser Gln Thr Lys Arg Leu Ser Phe Lys Gln Arg Met Gly Ile Val Glu Ser Ser Ala Leu Lys Glu Leu Ala Val Arg Met Arg Asp His Arg Asp Glu Leu Glu Asp Glu Phe Arg Lys Tyr Asp Pro Lys Asp Ser Gly Tyr Ile Ser Ile Ser

455

His Trp Cys Lys Val Met Glu Asn Val Thr Lys Leu Gly Leu Pro Trp 465 470 475 480

Arg Leu Leu Arg Asp Lys Leu Ala Pro Gly Thr Asp Ser Gln Lys Val 485 490 495

Asn Tyr Asn Arg Thr Leu Asp Leu Leu Asp Thr Asp Val Ile Leu Glu 500 505 510

Ala Glu Ala Asp Gly Met Ser Val Met Asp Ala Leu Tyr Ala Asn Lys 515 520 525

Ala Ser Leu Val Ala Ile Phe Asn Ile Ile Asp Ala Asp Asn Ser Gly 530 540

Glu Ile Thr Leu Asp Glu Phe Glu Thr Ala Ile Asp Leu Leu Val Ala 545 550 555 560

His Met Pro Gly Ala Tyr Ser Lys Ala Glu Met Leu Glu Lys Cys Arg
565 570 575

Met Met Asp Leu Asn Gly Asp Gly Lys Val Asp Leu Asn Glu Phe Leu 580 585 590

Glu Ala Phe Arg Leu Ser Asp Leu His Arg Lys Glu Gln Gln Asp Glu 595 600 605

Asn Ile Arg Arg Ser Thr Gly Arg Pro Ser Val Ala Lys Thr Ala 610 615 620

Thr Asp Pro Val Thr Leu Leu Ala Asp Lys Ile Ser Lys Asn Thr Leu 625 630 635 640

Val Val Glu His Asp Ile Asp Pro Thr Asp Cys Glu Ser Lys Val Ile 645 650 655

Asp Pro Lys Lys Ser 660